

LISTING OF CLAIMS

The following listing of the claims includes current amendments to claims 29, 33, 34, 36-40, 54-57, 59, 61-64 and 66. Claims 1-28 and 53 are canceled without prejudice, and new claims 67-78 are added. This listing of claims will replace all prior versions, and listings, of claims in the application.

1-28. (Canceled)

29. (Currently Amended) A system for positioning an implant in a body, comprising:
a catheter having a proximal end and a distal end, the catheter being inserted into a vascular cavity in the body;

a delivery member;

a temporary connection joining the implant and a distal end of the delivery member; and

an electrical measurement device,

~~the delivery member, the temporary connection and the implant being advanced through the catheter, wherein~~ the electrical ~~measurement measuring~~ device is configured to monitor ~~monitoring~~ an electrical condition related to a position of the temporary connection ~~in the catheter while the temporary connection is joined to the implant and delivery member,~~ the electrical condition changing when the temporary connection reaches a predetermined location as the delivery member is advanced through the catheter, the electrical measurement device configured to generate an output signal in response to the changed electrical condition, the output signal indicating that the temporary connection has reached the predetermined location.

30. (Original) The system of claim 29, the delivery member comprising a delivery wire.

31. (Original) The system of claim 29, the delivery member comprising a tubular body.

32. (Original) The system of claim 29, the temporary connection comprising an electrolytic connection.

33. (Currently Amended) The system of claim 32, further comprising a power supply configured to provide electrical current ~~the electrolytic connection being broken by current provided by the power supply~~ through the delivery member and the temporary connection to

~~corrode, the current corroding~~ a portion of the temporary connection.

34. (Currently Amended) The system of claim 33, the corrodible portion of the temporary connection ~~being corroded~~ comprising a stainless steel portion of the delivery member that is exposed to blood in a the vascular cavity in the body.

35. (Original) The system of claim 33, the electrical monitoring device being included in the power supply.

36. (Currently Amended) The system of claim 33, the electrical monitoring device being separate from the power ~~voltage~~ supply.

37. (Currently Amended) The system of claim 29, the temporary connection comprising ~~breaking~~ a temporary mechanical connection.

38. (Currently Amended) The system of claim 29, the temporary connection comprising a temporary connection that is breakable ~~broken~~ by application of heat.

39. (Currently Amended) The system of claim 29, the temporary connection comprising a temporary connection that is breakable by ~~broken with~~ application of Radio Frequency (RF) radiation.

40. (Currently Amended) The system of claim 29, the temporary connection comprising a temporary connection that is hydraulically breakable ~~broken~~.

41. (Original) The system of claim 29, the electrical condition comprising a current.

42. (Original) The system of claim 29, the electrical condition comprising a voltage.

43. (Original) The system of claim 29, the electrical condition comprising an impedance.

44. (Original) The system of claim 29, the implant comprising a vaso-occlusive implant.

- 45. (Original) The system of claim 44, the implant comprising a coil.
- 46. (Original) The system of claim 45, the coil comprising a Guglielmi Detachable Coil (GDC).
- 47. (Original) The system of claim 45, the coil including platinum.
- 48. (Original) The system of claim 45, the coil having a bio-reactive material coating.
- 49. (Original) The system of claim 45, the coil comprising a bio-reactive coil.
- 50. (Original) The system of claim 45, the coil comprising a non-bio-reactive polymer coil.
- 51. (Original) The system of claim 29, the implant comprising a stent.
- 52. (Original) The system of claim 29, the implant comprising a filter.
- 53. (Canceled).
- 54. (Currently Amended) The system of claim 29-53, further comprising a visual indicator, the electrical measurement device being configured to provide the output signal to the visual indicator so that the visual indicator can be illuminated after the electrical condition has changed the output signal comprising a visual signal.
- 55. (Currently Amended) The system of claim 29-53, further comprising an audio indicator, the electrical measurement device being configured to provide the output signal to the audio indicator so that the audio indicator can be activated after the electrical condition has changed the output signal comprising an audio signal.
- 56. (Canceled).

57. (Currently Amended) The system of claim 53, further comprising a controller, the electrical measurement device being configured to provide the output signal to the controller, the controller being configured to the output signal being provided to a controller, the automatically break the temporary connection being broken in response to the controller in response to the output signal after the electrical condition has changed.

58. (Original) The system of claim 29, further comprising an insulative member between the implant and the temporary connection.

59. (Currently Amended) The system of claim 29, the predetermined location ~~position~~ comprising ~~a the~~ distal end of the catheter.

60. (Original) The system of claim 59, the electrical condition changing when the temporary connection reaches the distal end of the catheter.

61. (Currently Amended) The system of claim 59, the electrical condition changing when the temporary connection extends beyond ~~exits~~ the distal end of the catheter.

62. (Currently Amended) The system of claim 29, the electrical measurement device being configured to compare ~~comparing~~ a reference current with a second current that is generated when the temporary connection reaches the predetermined location, the second current being larger than the reference current.

63. (Currently Amended) The system of claim 29, the electrical measurement device including a comparison circuit, the comparison circuit being configured to compare ~~that compares~~ a threshold current to a current measured by the electrical measurement device, the comparison circuit being further configured to generate ~~generating the an~~ output signal when indicating whether the temporary connection has reached the ~~reaches a~~ predetermined location and the measured current is larger than the threshold current.

64. (Currently Amended) The system of claim 29, further comprising a conductive wire connected between the electrical measurement device and the distal end of the catheter, the

electrical measurement monitoring device being configured to detect ~~detecting~~ an electrical condition related to a position of the temporary connection in the catheter through the conductive wire.

65. (Currently Amended) The system of claim 64, the conductive wire being positioned ~~inserted~~ through the catheter.

66. (Currently Amended) The system of claim 29, the electrical measurement monitoring device comprising a volt/current meter.

67. (New) A system for positioning an implant in a body, comprising:
a catheter having a proximal end and a distal end, the catheter being inserted into a vascular cavity in the body;
a delivery member;
a temporary connection joining the implant and a distal end of the delivery member;
a power supply for providing an electrical current that conducts through the delivery member and the temporary connection; and
a current measurement device, the current measurement device configured to
monitor the electrical current as the delivery member is pushed through the catheter, the electrical current being related to a relative position of the temporary connection before the temporary connection is broken, the electrical current increasing from a first current level to a second, higher current level when the temporary connection reaches a predetermined location relative to the catheter, and
generate an output signal in response to detecting the second current level, the output signal indicating that the temporary connection is at the predetermined location.

68. (New) The system of claim 67, the power supply capable of supplying sufficient electrical current so that the temporary connection can be broken electrolytically after the output signal is generated.

69. (New) The system of claim 67, further comprising a visual indicator, the current measurement device being configured to provide the output signal to the visual indicator so that

the visual indicator is illuminated after the electrical current has increased to the second current level.

70. (New) The system of claim 67, further comprising an audio indicator, the current measurement device being configured to provide the output signal to the audio indicator so that the audio indicator can be activated after the electrical current has increased to the second current level.

71. (New) The system of claim 67, further comprising a controller, the current measurement device configured to provide the output signal to the controller, the controller configured to automatically break the temporary connection in response to the output signal after the electrical current has increased to the second current level.